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- 1 [Software for parallel architectures: Exploiting task-level concurrency in a programmable network interface](#) 100%



Hyong-youb Kim , Vijay S. Pai , Scott Rixner

**Proceedings of the ninth ACM SIGPLAN symposium on Principles and practice of parallel programming** June 2003

Programmable network interfaces provide the potential to extend the functionality of network services but lead to instruction processing overheads when compared to application-specific network interfaces. This paper aims to offset those performance disadvantages by exploiting task-level concurrency in the workload to parallelize the network interface firmware for a programmable controller with two processors. By carefully partitioning the handler procedures that process various events related to ...

- 2 [Increasing web server throughput with network interface data caching](#) 97%



Hyong-youb Kim , Vijay S. Pai , Scott Rixner

**Tenth international conference on architectural support for programming languages and operating systems on Proceedings of the 10th international conference on architectural support for programming languages and operating systems (ASPLOS-X)** October 2002

Volume 30 , 37 , 36 Issue 5 , 10 , 5

This paper introduces network interface data caching, a new technique to reduce local interconnect traffic on networking servers by caching frequently-requested content on a programmable network interface. The operating system on the host CPU determines which data to store in the cache and for which packets it should use data from the cache. To facilitate data reuse across multiple packets and connections, the cache only stores application-level response content (such as HTTP data), with applica ...

- 3 [Optimistic implementation of bulk data transfer protocols](#) 94%



J. B. Carter , W. Zwaenepoel

**ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1989 ACM SIGMETRICS international conference on Measurement and modeling of computer systems April 1989**

Volume 17 Issue 1

During a bulk data transfer over a high speed network, there is a high probability that the next packet received from the network by the destination host is the next packet in the transfer. An optimistic implementation of a bulk data transfer protocol takes advantage of this observation by instructing the network interface on the destination host to deposit the data of the next packet immediately into its anticipated final location. No copying of the data is required in the ...

- 4 Fine grain parallel communication on general purpose LANs 88%

4 Todd Mummert , Corey Kosak , Peter Steenkiste , Allan Fisher

**Proceedings of the 10th international conference on Supercomputing January 1996**

- 5 The VMP network adapter board (NAB): high-performance network communication for 85%

4 multiprocessors

H. Kanakia , D. Cheriton

**ACM SIGCOMM Computer Communication Review , Symposium proceedings on Communications architectures and protocols August 1988**

Volume 18 Issue 4

High performance computer communication between multiprocessor nodes requires significant improvements over conventional host-to-network adapters. Current host-to-network adapter interfaces impose excessive processing, system bus and interrupt overhead on a multiprocessor host. Current network adapters are either limited in function, wasting key host resources such as the system bus and the processors, or else intelligent but too slow, because of complex transport protocols and because of a ...

- 6 A methodology for the verification of a &ldquo;system on chip&rdquo; 85%

4 Daniel Geist , Giora Biran , Tamara Arons , Michael Slavkin , Yvgeny Nustov , Monica Farkas , Karen Holtz , Andy Long , Dave King , Steve Barret

**Proceedings of the 36th ACM/IEEE conference on Design automation conference June 1999**

- 7 Session 8: systems support for multimedia: Cost-effective streaming server implementation 84%


4 using Hi-tactix

Damien Le Moal , Tadashi Takeuchi , Tadaaki Bandoh

**Proceedings of the tenth ACM international conference on Multimedia December 2002**

High performance and high quality for continuous media stream delivery needed by streaming server systems cannot be achieved efficiently using general-purpose operating systems, due to the overhead of the I/O mechanism implementation generally used. Special OS combined with powerful hardware can deliver better performance and quality but increases development complexity and deployment costs. The External I/O Engine Architecture adopts a hybrid approach, implementing streaming engines using the s ...

- 8 A system for interprocess communication in a resource sharing computer network 84%

 David C. Walden


**Communications of the ACM** April 1972

Volume 15 Issue 4

A system of communication between processes in a time-sharing system is described and the communication system is extended so that it may be used between processes distributed throughout a computer network. The hypothetical application of the system to an existing network is discussed.

9 Experiences with a high-speed network adaptor: a software perspective

84%

 Peter Druschel , Larry L. Peterson , Bruce S. Davie


**ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Communications architectures, protocols and applications** October 1994

Volume 24 Issue 4

This paper describes our experiences, from a software perspective, with the OSIRIS network adaptor. It first identifies the problems we encountered while programming OSIRIS and optimizing network performance, and outlines how we either addressed them in the software, or had to modify the hardware. It then describes the opportunities provided by OSIRIS that we were able to exploit in the host operating system (OS); opportunities that suggested techniques for making the OS more effective in d ...

10 VAXcluster: a closely-coupled distributed system

82%

 Nancy P. Kronenberg , Henry M. Levy , William D. Strecker


**ACM Transactions on Computer Systems (TOCS)** May 1986

Volume 4 Issue 2

A VAXcluster is a highly available and extensible configuration of VAX computers that operate as a single system. To achieve performance in a multicomputer environment, a new communications architecture, communications hardware, and distributed software were jointly designed. The software is a distributed version of the VAX/VMS operating system that uses a distributed lock manager to synchronize access to shared resources. The communications hardware includes a 70 megabit per second message ...

11 Anatomy of a compact user interface development tool

80%

 Jack W. Stott , Jeffrey E. Kottemann


**Communications of the ACM** January 1988

Volume 31 Issue 1

Many contemporary user oriented applications require a combination of attributes from both window and forms management systems. PANES was developed as a tool to fill this niche by providing a simple, yet flexible tool for both the moderately trained, as well as the more sophisticated programmer, while allowing the development of user friendly, modeless application software.

12 An analytical model of the working-set sizes in decision-support systems

80%

 Magnus Karlsson , Per Stenström


**ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2000 ACM SIGMETRICS international conference on Measurement and modeling of computer systems** June 2000

Volume 28 Issue 1

This paper presents an analytical model to study how working sets scale with database size

and other applications parameters in decision-support systems (DSS). The model uses application parameters, that are measured on down-scaled database executions, to predict cache miss ratios for executions of large databases. By applying the model to two database engines and typical DSS queries we find that, even for large databases, the most performance-critical working set is small and is ...

**13** Interfacing Java to the virtual interface architecture 80%

 Chi-Chao Chang , Thorsten von Eicken

**Proceedings of the ACM 1999 conference on Java Grande June 1999**


**14** Operating system support for high-speed communication 80%

 Peter Druschel

**Communications of the ACM September 1996**

Volume 39 Issue 9

**15** Zero copy I: user-mode perspective 77%


 Dragan Stancevic

**Linux Journal January 2003**

Volume 2003 Issue 105

Apache and Samba use the sendfile system call to speed up file serving. Here's how you can use it too.

**16** A multicast transport protocol 77%


 J. Crowcroft , K. Paliwoda

**ACM SIGCOMM Computer Communication Review , Symposium proceedings on Communications architectures and protocols August 1988**

Volume 18 Issue 4

This paper presents the design of a reliable multicast transport protocol. The aim of the protocol is to provide a service equivalent to a sequence of reliable sequential unicasts between a client and a number of servers, whilst using the broadcast nature of some networks to reduce both the number of packets transmitted and the overall time needed to collect replies. The service interface of the protocol offers several types of service, ranging from the collection of a single rep ...


**17** Profiling and reducing processing overheads in TCP/IP 77%

 Jonathan Kay , Joseph Pasquale

**IEEE/ACM Transactions on Networking (TON) December 1996**

Volume 4 Issue 6

**18** Handling audio and video streams in a distributed environment 77%

 Alan Jones , Andrew Hopper

**ACM SIGOPS Operating Systems Review , Proceedings of the fourteenth ACM symposium on Operating systems principles December 1993**

Volume 27 Issue 5

**19** The importance of non-data touching processing overheads in TCP/IP 77%

4 Jonathan Kay , Joseph Pasquale  
**ACM SIGCOMM Computer Communication Review , Conference proceedings on  
Communications architectures, protocols and applications October 1993  
Volume 23 Issue 4**

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('object oriented operating system')

**Search Again****Results:**Journal or Magazine = **JNL** Conference = **CNF** Standard = **STD****1 An open visual model for object-oriented operating systems***Sefika, M.; Campbell, R.H.;*

Object-Orientation in Operating Systems, 1995., Fourth International Workshop on , 14-15 Aug. 1995

Page(s): 103 -112

[\[Abstract\]](#) [\[PDF Full-Text \(1048 KB\)\]](#) **IEEE CNF****2 Object-oriented operating systems design and the revival of program families***Cordson, J.; Schroder-Preikschat, W.;*

Object Orientation in Operating Systems, 1991. Proceedings., 1991 International Workshop on , 17-18 Oct. 1991

Page(s): 24 -28

[\[Abstract\]](#) [\[PDF Full-Text \(376 KB\)\]](#) **IEEE CNF****3 Operating systems support for collaborative work***Kaplan, S.M.; Swenson, K.D.;*

Object Orientation in Operating Systems, 1992., Proceedings of the Second International Workshop on , 24-25 Sept. 1992

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[\[Abstract\]](#) [\[PDF Full-Text \(324 KB\)\]](#) **IEEE CNF****4 Cross-address space dynamic linking***Kempf, J.; Kessler, P.B.;*

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Second International Workshop on , 24-25 Sept. 1992  
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**5 Unification of active and passive objects in an  
object-oriented operating system**

*Murata, K.; Horspool, R.N.; Manning, E.G.; Yokote, Y.; Tokoro, M.;*  
Object-Orientation in Operating Systems, 1995., Fourth International  
Workshop on , 14-15 Aug. 1995  
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**6 Why object oriented operating systems are boring**

*Hamilton, G.; Khalidi, Y.A.; Nelson, M.N.;*  
Object Orientation in Operating Systems, 1991. Proceedings., 1991  
International Workshop on , 17-18 Oct. 1991  
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**7 Distributed object interoperability via a network type system**

*Muckelbauer, P.A.; Russo, V.F.;*  
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**8 SPACE: a new approach to operating system abstraction**

*Probert, D.; Bruno, J.L.; Karaorman, M.;*  
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**9 Theta: an object-oriented operating system for intelligent  
process monitoring**

*Shirakawa, H.; Lopez Gulliver, R.; Inabayashi, S.; Nakagawa, T.;*  
Real Time Systems, 1991. Proceedings., Euromicro '91 Workshop on ,



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**10 An object-oriented operation system configuration for ATM networks**

*Yoshida, T.; Fujii, N.; Maki, K.;*

Communications, 1992. ICC 92, Conference record, SUPERCOMM/ICC '92, Discovering a New World of Communications. IEEE International Conference on , 14-18 June 1992

Page(s): 1402 -1407 vol.3

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**11 The object-oriented advantage in prototyping a remote file system**

*Condry, M.W.; Lim, S.B.; Lee, L.Y.;*

Object Orientation in Operating Systems, 1992., Proceedings of the Second International Workshop on , 24-25 Sept. 1992

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**12 Organizing and typing persistent objects within an object-oriented framework**

*Madany, P.W.; Campbell, R.H.;*

System Sciences, 1992. Proceedings of the Twenty-Fifth Hawaii International Conference on , Volume: i , 7-10 Jan. 1992

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**13 Object migration in a heterogeneous world-a multi-dimensional affair**

*Moons, H.; Verbaeten, P.;*

Object Orientation in Operating Systems, 1993., Proceedings of the Third International Workshop on , 9-10 Dec. 1993

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**14 Malcolm Atkinson is almost right! [Object-oriented operating system services]**

*O'Mullane, W.; Sorensen, H.;*

Object Orientation in Operating Systems, 1993., Proceedings of the Third International Workshop on , 9-10 Dec. 1993

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**15 The need for customizable operating systems**

*Kiczales, G.; Lamping, J.; Maeda, C.; Keppel, D.; NcManee, D.;*

Workstation Operating Systems, 1993. Proceedings., Fourth Workshop on , 14-15 Oct. 1993

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[\[Abstract\]](#) [\[PDF Full-Text \(312 KB\)\]](#) **IEEE CNF**

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**16 Integrated engineering workstation using the NeXT Step operating system**

*Bollini, R.; Foster, L.D.; Gent, G.;*

Frontiers in Education Conference, 1993. Twenty-Third Annual Conference. 'Engineering Education: Renewing America's Technology', Proceedings. , 6-9 Nov. 1993

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**17 Object-oriented operation system for optical cable networks**

*Kashima, N.; Kokubun, T.; Sao, M.; Yamamoto, Y.;*

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**18 Porting and enhancements of a real-time object-oriented operating system**

*Bryce, R.W.; Murata, K.; Shoja, G.C.; Manning, E.G.;*

Communications, Computers, and Signal Processing, 1995. Proceedings. IEEE Pacific Rim Conference on , 17-19 May 1995

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**19 An algorithm for supporting fault tolerant objects in**

**distributed object oriented operating systems**

*Beedubail, G.; Karmarkar, A.; Gurijala, A.; Marti, W.; Pooch, U.;*  
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**20 The Raven project [distributed object-oriented OS]**

*Neufeld, G.; Chanson, S.;*  
Workstation Operating Systems, 1989., Proceedings of the Second  
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**21 Persistence in the Spring system**

*Radia, S.; Madany, P.; Powell, M.L.;*  
Object Orientation in Operating Systems, 1993., Proceedings of the  
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**22 Object-oriented transactions in Choices**

*Xiao, L.; Campbell, R.H.;*  
System Sciences, 1993, Proceeding of the Twenty-Sixth Hawaii  
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**23 Naming policies in the Spring system**

*Radia, S.;*  
Distributed and Networked Environments, 1994. Proceedings., First  
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**24 A performance study of an object-oriented, parallel operating system**

*Kohr, D.R., Jr.; Xingbin Zhang; Reed, D.A.; Rahman, M.;*  
System Sciences, 1994. Vol.II: Software Technology, Proceedings of

the Twenty-Seventh Hawaii International Conference on , Volume: 2 ,  
4-7 Jan. 1994  
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**25 Proceedings of COMPCON '94**

Compcon Spring '94, Digest of Papers. , 28 Feb.-4 March 1994

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('flat structure')

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*Wai-Kit Lam, R.; Ip, H.; Chi-Kwong Li;*

Pattern Recognition, 1998. Proceedings. Fourteenth International Conference on , Volume: 2 , 16-20 Aug. 1998

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**2 Optimal design of flat structures for vibration suppression**

*Iwasaki, T.; Ikeda, M.;*

Control Applications, 2001. (CCA '01). Proceedings of the 2001 IEEE International Conference on , 5-7 Sept. 2001

Page(s): 583 -587

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**3 Stack filters: theory and applications**

*Yoo, J.; Fong, K.L.; Adams, G.B., III; Coyle, E.J.;*

Signals, Systems and Computers, 1993. 1993 Conference Record of The Twenty-Seventh Asilomar Conference on , 1-3 Nov. 1993

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**4 A fast algorithm for morphological operations with flat structuring element**

*Ringo Wai-Kit Lam; Chi-Kwong Li;*  
Circuits and Systems II: Analog and Digital Signal Processing, IEEE  
Transactions on , Volume: 45 Issue: 3 , March 1998  
Page(s): 387 -391

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**5 Robust color edge detection using color-scale morphology**

*Jiang Gangyi; Zheng Yi; Chen Huifang;*  
TENCON '96. Proceedings. 1996 IEEE TENCON. Digital Signal  
Processing Applications , Volume: 1 , 26-29 Nov. 1996  
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**6 Augmenting an artificial immune network**

*Neal, M.; Hunt, J.; Timmis, J.;*  
Systems, Man, and Cybernetics, 1998. 1998 IEEE International  
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**7 Nano-channel on quartz-chip laboratory using single  
molecular detectable thermal lens microscope**

*Matsumoto, K.; Kawakami, T.; Nakao, M.; Hatamura, Y.; Kitamori, T.;*  
*Sawada, T.;*  
Micro Electro Mechanical Systems, 1998. MEMS 98. Proceedings., The  
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**8 High Q microwave inductors on silicon by surface tension  
self-assembly**

*Dahlmann, G.W.; Yeatman, E.M.;*  
Electronics Letters , Volume: 36 Issue: 20 , 28 Sep 2000  
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**9 Using half-plane solutions in the context of MM for analyzing  
large flat structures with or without resistive loadings**

*Chang, A.H.; Mittra, R.;*

Antennas and Propagation, IEEE Transactions on , Volume: 38 Issue:  
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**10 Surface micromachined piezoresistive pressure sensors with step-type bent and flat membrane structures**

*Lisec, T.; Kreutzer, M.; Wagner, B.;*

Electron Devices, IEEE Transactions on , Volume: 43 Issue: 9 , Sept. 1996

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**11 Multiscale recursive medians, scale-space, and transforms with applications to image processing**

*Bangham, J.A.; Ling, P.; Young, R.;*

Image Processing, IEEE Transactions on , Volume: 5 Issue: 6 , June 1996

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**12 Statistical analysis of space-varying morphological openings with flat structuring elements**

*Chu-Song Chen; Ja-Ling Wu; Yi-Ping Hung;*

Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and Signal Processing, IEEE Transactions on] , Volume: 44 Issue: 4 , April 1996

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**13 Modeling of sodium/metal chloride batteries**

*Nelson, P.A.;*

Energy Conversion Engineering Conference, 1989. IECEC-89. Proceedings of the 24th Intersociety , 6-11 Aug. 1989

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**14 On-line monitoring and diagnosis of powersystem operating conditions using artificial neural networks**

*Sobajic, D.J.; Pao, Y.-H.; Dolce, J.;*  
Circuits and Systems, 1989., IEEE International Symposium on , 8-11  
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**15 Decomposition and allocation of flat-structured problems**

*Hu, P.; Su, B.; Shi, C.;*  
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- 2 [Distributed operating systems](#) 77%  
 Andrew S. Tanenbaum , Robbert Van Renesse  
**ACM Computing Surveys (CSUR)** December 1985  
Volume 17 Issue 4  
Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...
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 David A. Moon  
**ACM SIGARCH Computer Architecture News , Proceedings of the 12th annual international symposium on Computer architecture** June 1985  
Volume 13 Issue 3
- 4 [A mark-and-sweep collector C++](#) 77%  
 Daniel R. Edelson  
**Proceedings of the 19th ACM SIGPLAN-SIGACT symposium on Principles of programming languages** February 1992  
Our research is concerned with compiler-independent, tag-free garbage collection for the

C++ programming language. We have previously presented a copying collector based on root registration. This paper presents a mark-and-sweep garbage collector that ameliorates shortcomings of the previous collector. We describe the two collectors and discuss why the new one is an improvement over the old one. We have tested this collector and a conservative collector in a VLSI CAD application, and this p ...

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